

Appendix D

Jones Ferry (Area 7) CSO Satellite Treatment Facility—Interim Limits and Monitoring Requirements

Note: All effluent limits and monitoring requirements for all parameters are applicable year-round for this facility. Disinfection is required year-round for every wet weather event at this facility; chlorination will not be limited to a particular season.

Parameter	Effluent Limits Maximum Daily	Effluent Limits Monthly Average	Monitoring Requirements
Fecal Coliform *1	200 fcu/100 ml (if 1 day/month sampled) 400 fcu/100 ml (if > 1 day/month sampled)	200 fcu/100 ml (geometric mean)	Once/month minimum for any month with a discharge from the facility. One grab sample every hour for duration of discharge.
Total Residual Chlorine (TRC) (after de-chlorination)	0.89 mg/l (if 1 day/month sampled) 1.00 mg/l (if > 1 day/month sampled)	0.89 mg/l	Once/month. One grab sample/event within one hour of overflow, and one additional grab sample every 4 hours thereafter, or continuous chlorine analyzer.
<i>The Parameters below are Report only</i>			
Parameter	Report	Monitoring Requirements	
Chlorine Residual in CCT (before de-chlorination)	Report mg/l of total residual chlorine at discharge end of chlorine contact tank (CCT), prior to de-chlorination	Once/month. One grab sample/event within one hour of overflow, and one additional grab sample every 4 hours thereafter, or continuous chlorine analyzer.	
E. coli *2	Report colonies/100 ml	Once/month, hourly during discharge event.	
pH	Report	Once/month. One grab sample per event.	
BOD	Report mg/l and pounds/day	Once/6 months. Time proportioned composite sample.	
TSS	Report mg/l and pounds/day	Once/6 months. Time proportioned composite sample.	
Ammonia Nitrogen, NO ₃ , NO ₂ , TKN	Report mg/l and pounds/day	Once/6 months. Time proportioned composite sample.	
Acute Toxicity *3	LC 50, outfall composite, and receiving water	Once/6 months. Time proportioned composite sample.	
Rainfall	Report inches of rainfall/day	Each rain event, as recorded at WWTP.	
Flow: (A) Treated Flow from Facility to River; (B) Untreated Flow to River; and (C) Flow Drained from Facility back to Collection System	For A: Total daily flow (gallons per day), maximum hourly flow (gallons/minute), and duration of flow (hours) For B: Duration of flow (hours) during condition of High River/Flood Pump Station use. Otherwise, same as for A, above. For C: Total daily flow (gallons per day)	Each wet weather event. Continuous effluent flow recorder. (Note: Flow drained from facility back to collection system should only occur when WWTP flows are below 25 MGD)	

See following page for explanation of footnotes # *1, *2, and *3.

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Explanation of Footnotes *1, *2, and *3

- *1:** The fecal coliform effluent limits apply for flows up to a maximum hourly flow rate of 35.2 million gallons per day (MGD). When flow rates are greater than 35.2 MGD, the numerical effluent limits do not apply. During these high flow conditions, at least one grab sample/month is to be collected and analyzed for monitoring purposes only. This distinction is made because the facility is required to disinfect flows up to a 35.2 MGD flow rate (the estimated peak CSO flow rate from CSO regulator 7.1 during a 3-month design storm), but will be equipped to pump flows at rates greater than 35.2 MGD to allow disinfection of larger storms.
- *2:** For the first 2 years of operation of this facility, hourly E. coli bacteria samples are required to be taken coincident with the hourly fecal coliform samples, for at least one bypass event per month (12 months per year). Results of the E. coli samples are to be reported side by side with results of fecal coliform samples. After 2 years of operation, the hourly E. coli bacteria samples can be eliminated, while the requirement for hourly fecal coliform samples will continue.
- *3:** LC 50 to use fathead minnows (*pimephales promelas*). Outfall composite and receiving water samples and analysis, similar to those performed for the Chicopee Water Pollution Control Facility toxicity tests, are also required for this Jones Ferry CSO Satellite Treatment Facility.